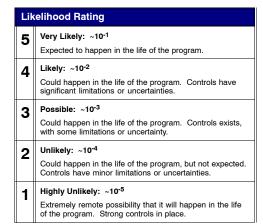
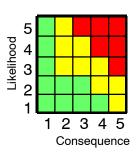
FIGURE 5-1

SSP RISK MANAGEMENT SCORECARD



10/13/04





Identify and Assess Risk

- 1. Start with a Concern. Is this a program risk?
- What information is available? Gather information: requirements status, problem data, trends, hazards, critical item history, etc.
- 2. Define Risk Statement.
- Given the condition (A), there is a possibility that (B) will occur.
 - (A) Single phrase briefly describing current key circumstances, situations, etc. that are causing concern, doubt, anxiety, or uncertainty
 - (B) Consequences, or impacts of the current conditions, that could be realized due to (A)
- **3. Define the Consequences (B).** Locate the most accurate description(s) among the Safety, Mission Success, Supportability, Cost, and Schedule consequence descriptions.
- 4. How likely is this risk scenario?. Locate the most accurate Likelihood Description that corresponds to the risk statement. Only one Likelihood Score is possible. Note: Quantitative likelihood ratings refer to program life, and are provided as guidelines only.
- Plot the Risk. Select the highest consequence score. Plot this against the ONE Likelihood Score on the RED/YELLOW/GREEN risk matrix.

	Consequence Rating		1	2	3	4	5
	Safety	Human Health	- Minor or First Aid Injury	Moderate injury, illness, incapacitation or impairment	- Significant or long term, injury, illness, incapacitation or impairment	- Permanent or major injury, impair- ment, or incapacitation	- Death
		System Safety	- Damage to Non-Flight-Critical Assets	- Loss of non-flight critical assets	Damage to major element(s) of flight vehicle or ground facility	Loss major element(s) of flight vehicle or ground facility	- Loss of Program
		Environmental Safety	- Minor environmental impact	- Moderate Environmental Impact	- Significant Environmental Impact	- Major Environmental Impact	- Catastrophic Environ- mental impact
		HSE Compliance	- Minor Non-Compliance	- Moderate Non-Compliance	- Significant Non-Compliance	- Major Non-Compliance	- Non Defined
CAL	Mission Success	Shuttle Operations	- Minor increase in flight opera- tions timeliness or complexity	- Failure to achieve any planned SSP mission objective	Minimum Duration Flight (MDF) Significant increase in flight operations timeliness or complexity	Failure to achieve all Shuttle major mission objectives (MMO) Early Mission Termination Pad Abort or Intact Abort	- Contingency Abort
ECHNICA		ISS Operations	- None Defined	- Failure to achieve any planned ISS mission objective	- None Defined	- Failure to support assembly critical ISS requirements	- Shuttle Crew Evacuation - ISS evacuation
۳		SSP Developmental Activities	 Failure to meet developmental requirements, Minor worka- rounds or temporary waivers required for flight 	- None Defined	Inability to complete Commit-to-Flight test, analysis or certification Failure to meet developmental require- ments. Significant or permanent waivers required for flight	Failure to meet key development requirements (e.g., performance)	- None Defined
	Supportability	Capability to Maintain SSP Assets	Temporary Usage Loss or LOCM of Non flight critical asset	- Permanent Usage Loss or LOCM of non-flight critical asset	Temporary Usage Loss or LOCM, major elements(s) of flight vehicle or ground facility	Permanent Usage Loss or LOCM of major element(s) of flight vehicle or ground facility	- Inability to support further Shuttle Flight operations
		Flight Processing	Collateral damage to non flight critical assets during processing	- Moderate increase timeline or complexity	- Significant increase timeline or complexity	Collateral damage to major ele- ment(s) of flight vehicle or ground facility during processing	- None Defined
PROGRAMATIC	Schedule	SSP/ISS Schedule	- Minor Operational Slips	- Less than 7 day slip in an SSP/ISS Freeze Point or milestone	Greater than 7 day slip in an SSP/ISS Freeze Point or Milestone ISS hardware/software delivery date not met for on-orbit needs	1 flight decrease from baselined manifest 1 mission increase in ISS assembly plan Flight delay occuring pre-FRR SSP/ISS milestone slip of more than 1 month	2 or more flight decrease from baselined manifest 2 or more mission increase in ISS assembly plan Flight delay after L-2 Cannot acheive major SSP/ISSP milestone
4	Cost	Risk Recovery Cost	< \$1 M	\$1 M - \$5 M	> \$5 M - \$15 M	> \$15 M - \$25 M	> \$25 M